

Real Analysis

Mathematics 425

Section: D100

Term: 2013 Fall

Instructor: Dr. Nilima Nigam

Discussion Topics: We will be covering the content of Chapters 1-3, and some of Chapters 6 and 7, from the text. The topics: Lebesgue measure, measurable sets, integration, differentiation, abstract measures and integration, signed measures and some point-set topology. Depending on available time, we will either cover the ergodic theorems or discuss Hausdorff measures.

Grading: Homework 30%

Midterm Exam - 20%

Final Exam - 50%

Required Texts: Real Analysis - Measure Theory, Integration and Hilbert Spaces
Stein & Shakarchi
Princeton
780691113869

Recommended Texts: Real Analysis - Modern Techniques and their Applications
Edition: 2nd
Author: Gerald B. Folland
Publisher: Wiley
ISBN: 978-0471317166

Measure and Integral: an introduction to real analysis
2 / E
Wheeden & Zygmund
Chapman Hall
9780824764999

Materials/Supplies:

Prerequisite/Corequisite: Prerequisite: \x09

MATH 320

Notes: THE INSTRUCTOR RESERVES THE RIGHT TO CHANGE ANY OF THE ABOVE INFORMATION.

Students should be aware that they have certain rights to confidentiality concerning the return of course papers and the posting of marks. Please pay careful attention to the options discussed in class at the beginning of the semester.

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